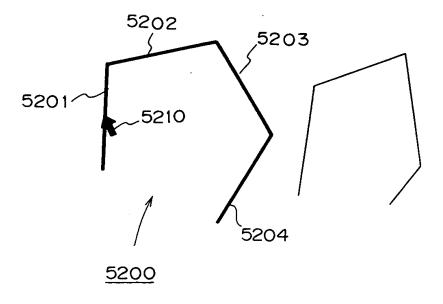


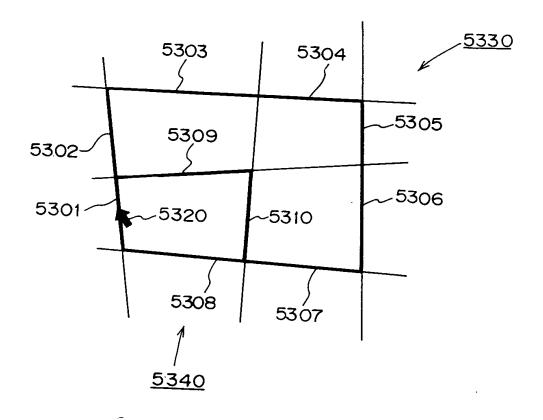
PRIOR ART

FIG. 1



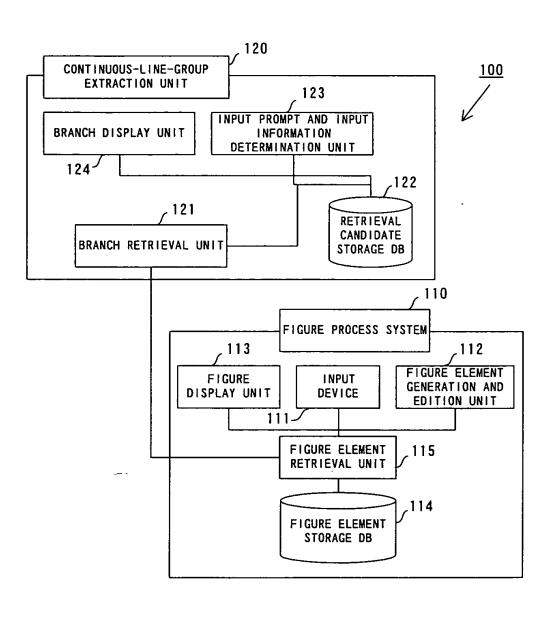
PRIOR ART

FIG. 2



PRIOR ART

FIG. 3



F I G. 4

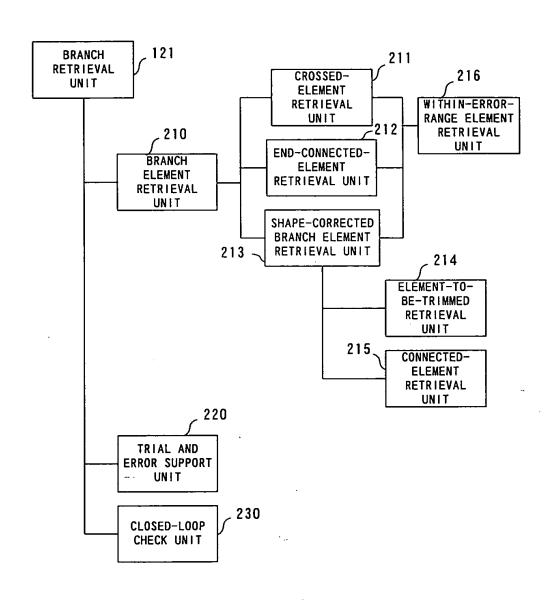


FIG. 5



FIG. 6

FIGURE ELEMENTS ARE CONNECTED AT THE ENDS IN THE CASE WHERE INTERSECTION IS AT THE ENDS OF THE RESPECTIVE ELEMENTS, UNDER THE END-CONNECTED STATE AS SHOWN IN FIG. 8

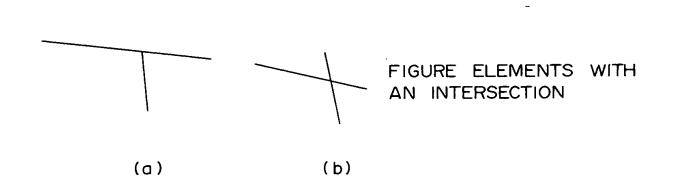


FIG. 8

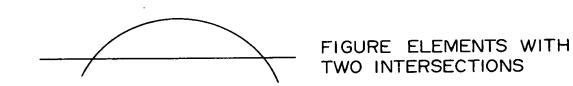
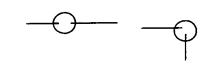


FIG. 9

(a) (b)	 	FIGURE ELEMENTS WHICH ON THE SAME STRAIGHT L (CURVED LINE) AND DO N CROSS	INE
		FIGURE ELEMENTS THAT INTERSINGUEN EXTENDED	ECT



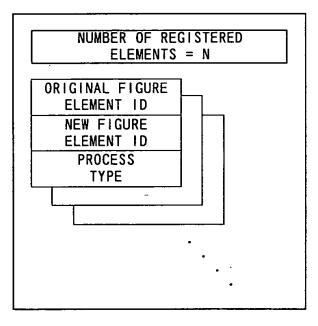
(a) (b)

SIZE OF A PREDETERMINED ERROR, FOR EXAMPLE, ABOUT 10⁻³

	NUMBER OF REGISTERED ELEMENTS = N
1	FIGURE ELEMENT ID
2	FIGURE ELEMENT ID
3	FIGURE ELEMENT ID
	· · · · · · · · · · · · · · · · · · ·
N	FIGURE ELEMENT ID

TABLE 1

F I G. 12



_TABLE 2

F I G. 13

FIGURE ELEMENT ID

REFERENCE POINT COORDINATE VALUE

TABLE 3

FIG. 14

DIRECTION (POSITIVE/NEGATIVE)

TABLE 4

NUMBER OF CROSSED ELEMENTS = N			
1	CROSSED FIGURE ELEMENT ID		
2	CROSSED FIGURE ELEMENT ID		
3	CROSSED FIGURE ELEMENT ID		
	•		
	•		
N	CROSSED FIGURE ELEMENT ID		

TABLE 5

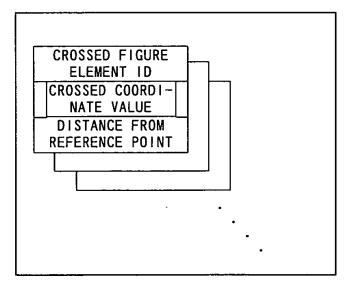
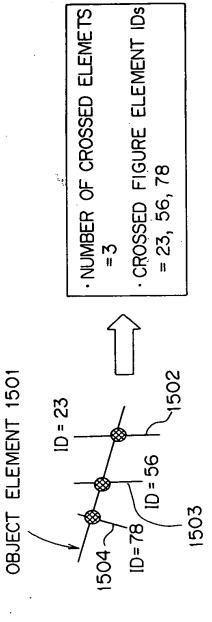
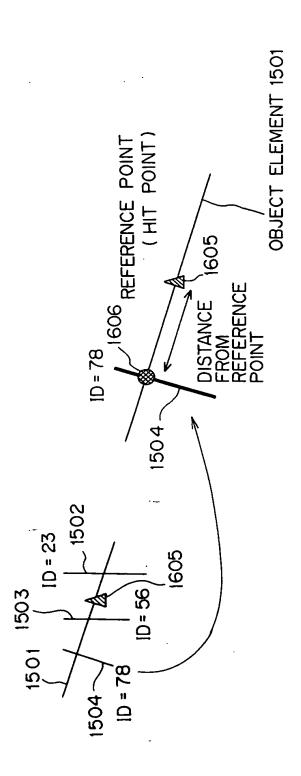


TABLE 6

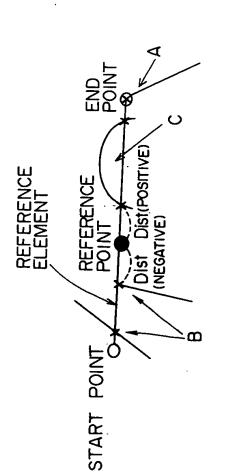
FIG. 17



F1G. 18



F1G. 19



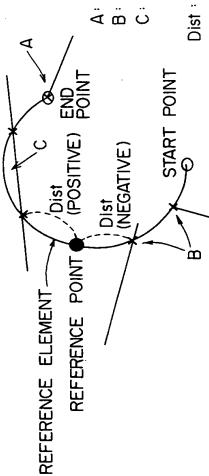
A : END-CONNECTED STATE

B : CROSSED STATE

C : ROOT STATE

Dist: DISTANCE BETWEEN REFERENCE
POINT AND BRANCH POINT
(INTERSECTION): DIRECTION FROM
REFERENCE POINT TO START SIDE
IS NEGATIVE DIRECTION AND
DIRECTION FROM REFERENCE
POINT TO END SIDE IS POSITIVE
DIRECTION

F16. 20



A: END-CONNECTED STATE
B: CROSSED STATE
C: ROOT STATE

Dist: RELATIVE ANGLE FROM REFERENCE POINT
TO BRANCH POINT (INTERSECTION);
ANGLE FROM REFERENCE POINT TO START
POINT SIDE (CLOCKWISE) IS NEGATIVE,
AND ANGLE FROM REFERENCE POINT TO

END POINT SIDE (COUNTERCLOCKWISE) IS

POSITIVE

F1G. 21

	GENERATION
NU	MBER OF BRANCHES = N
1	BRANCH ID
2	BRANCH ID
3	BRANCH ID
	· ·
N	BRANCH ID

TABLE 7

F I G. 22

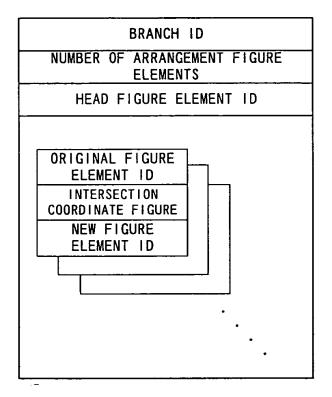


TABLE 8

FIG. 23

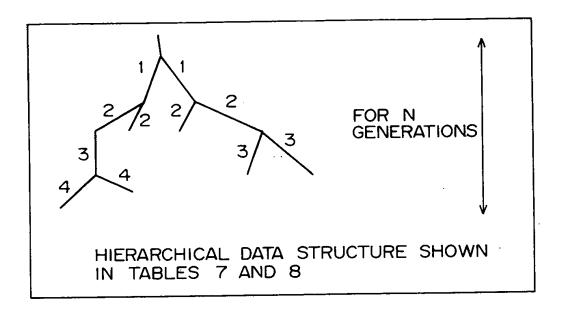


FIG. 24

HEAD END-CONNECTED FIGURE ELEMENT ID				
	NUN	BER OF END-CONNECTED BRANCHES = N		
	1	BRANCH ID		
	2	BRANCH ID		
	3	BRANCH ID		
'				
	N	BRANCH ID		

TABLE 9

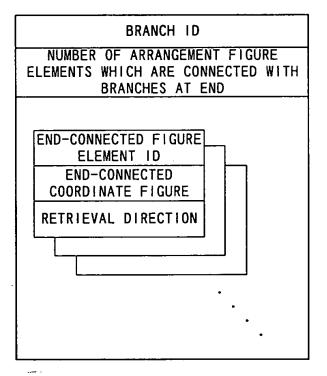


TABLE 10

FIG. 26

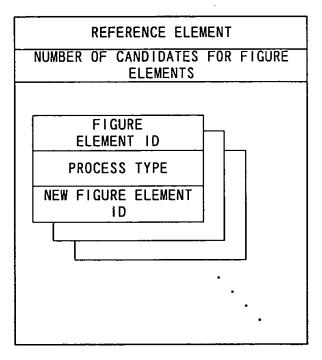


TABLE 11

FIG. 27

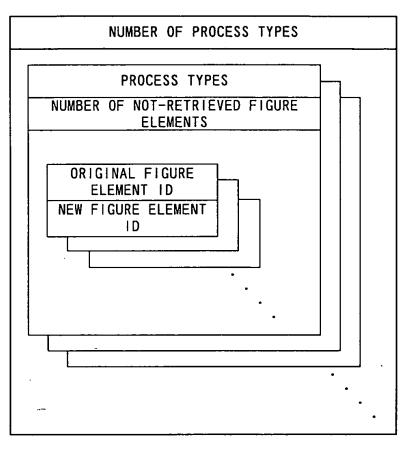


TABLE 12

FIG. 28

NUMBER OF SPECIFIED TYPES = N					
	SPECIFIED RETRIEVAL TYPE				
	SPECIFIED RETRIEVAL TYPE				
	•				
	•	i			
	•				
	•				
	SPECIFIED RETRIEVAL TYPE				

TABLE 13

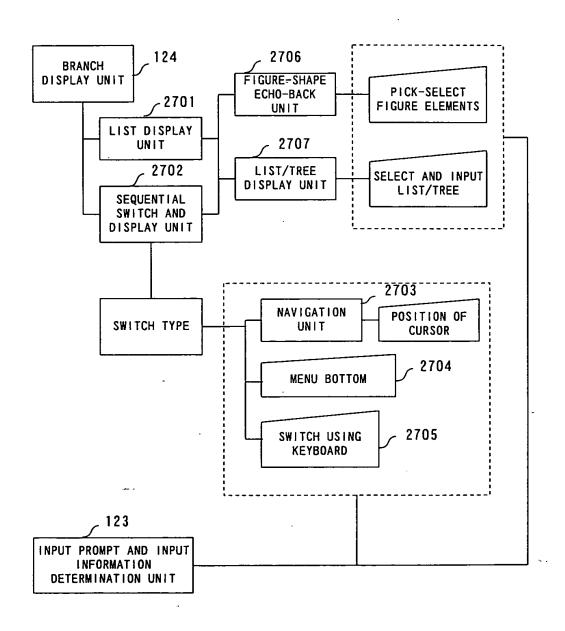
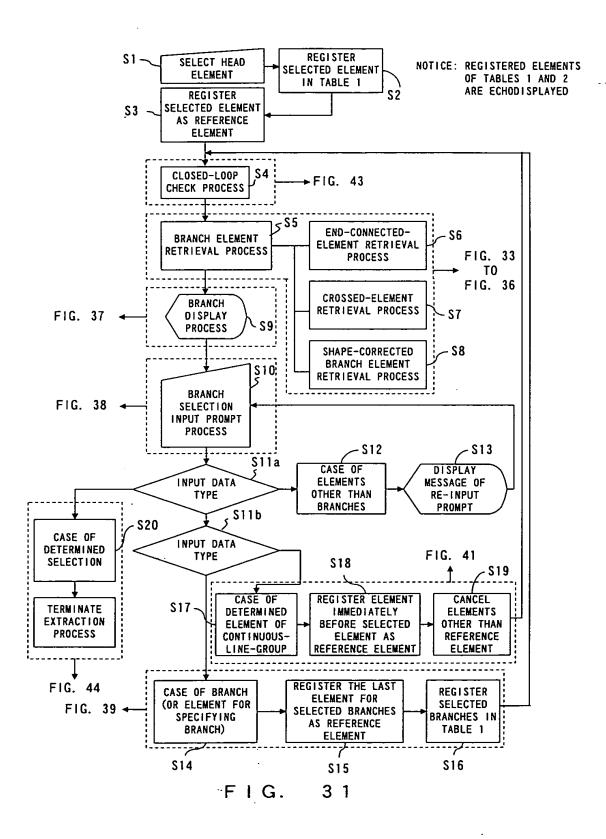
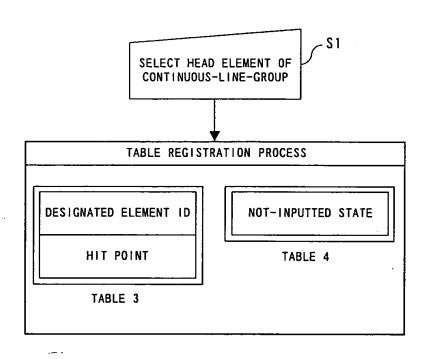


FIG. 30





F I G. 32

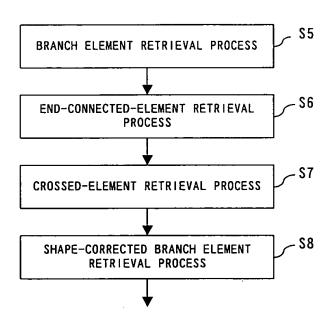


FIG. 33

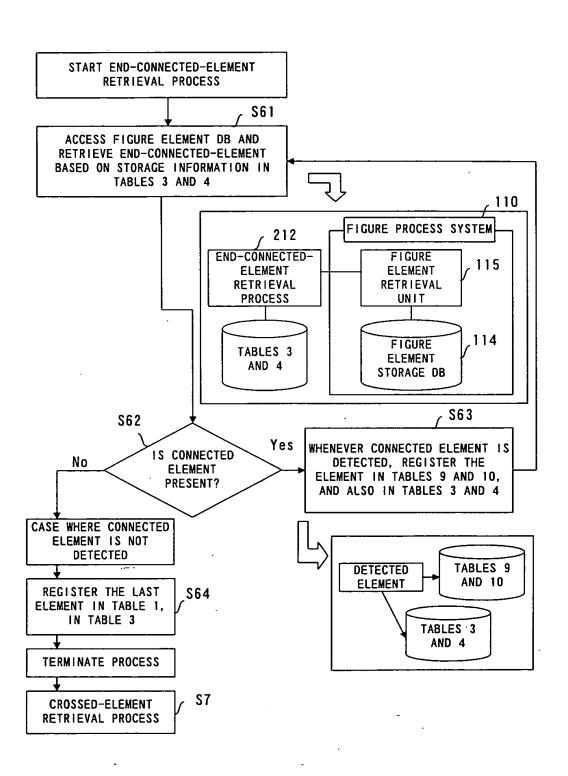


FIG. 34

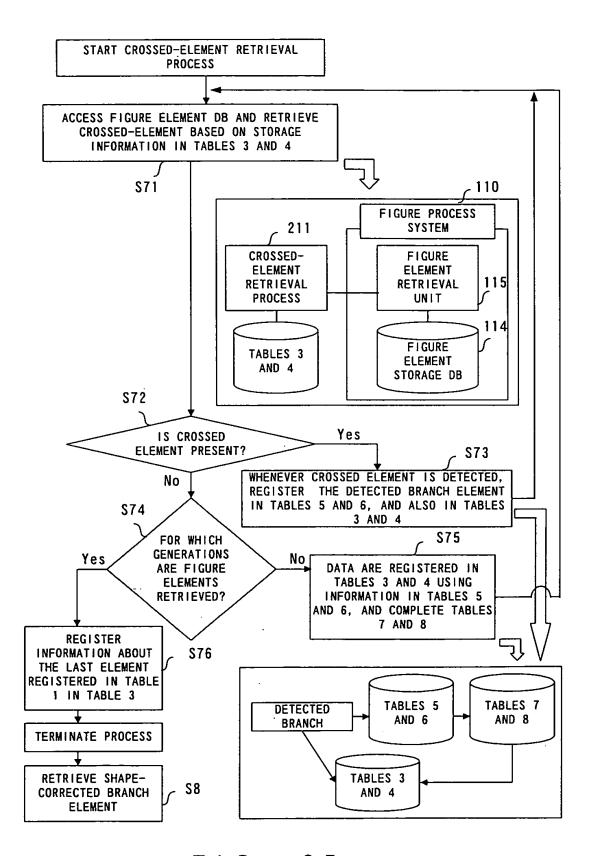


FIG. 35

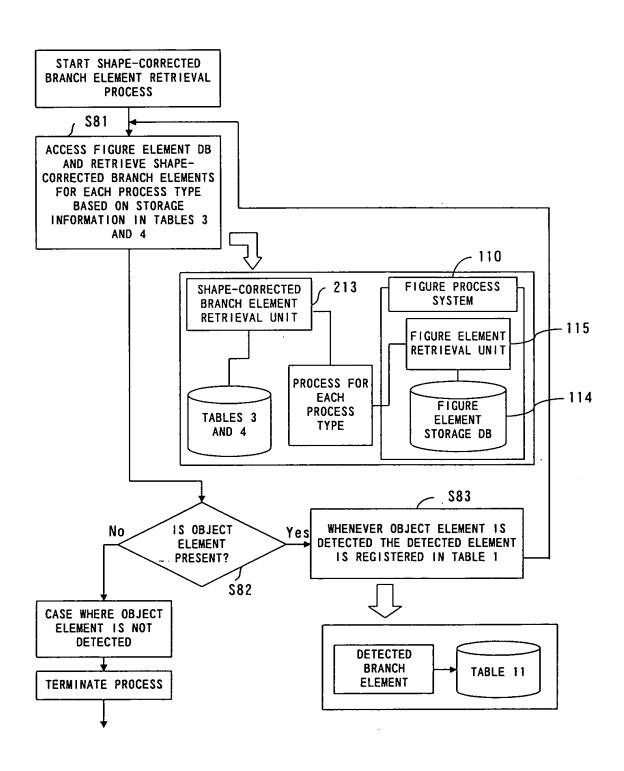
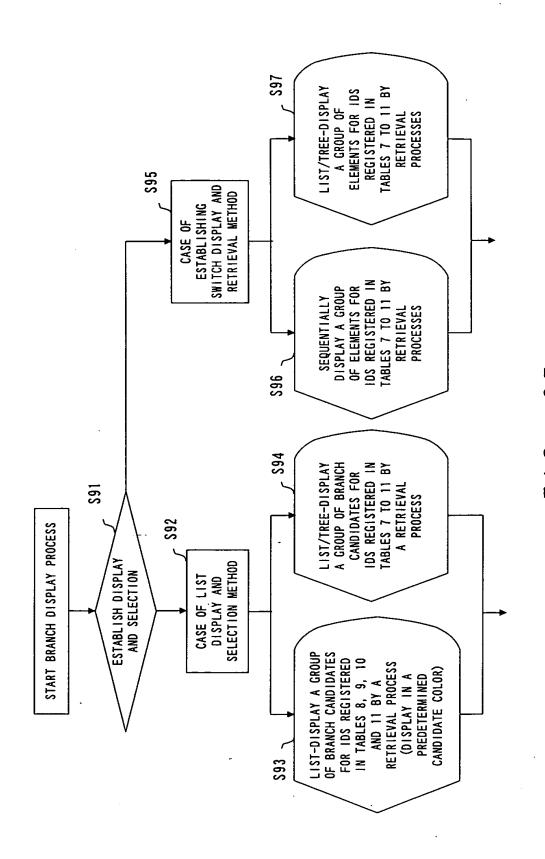
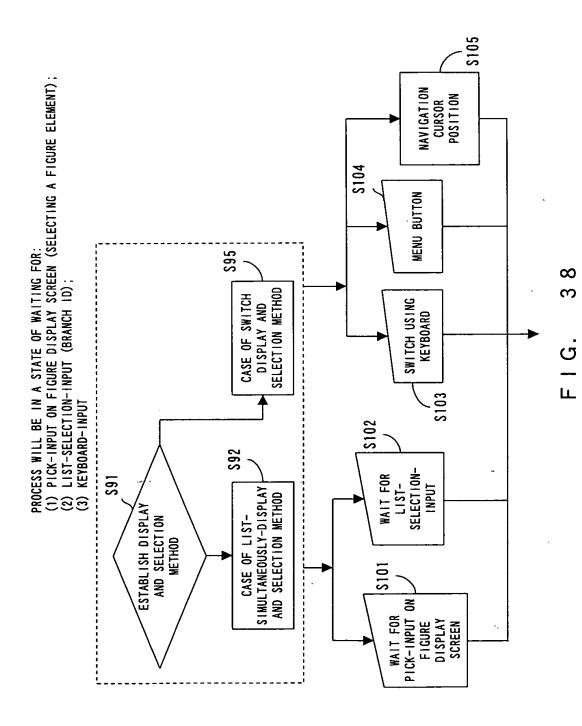


FIG. 36



F1G. 37



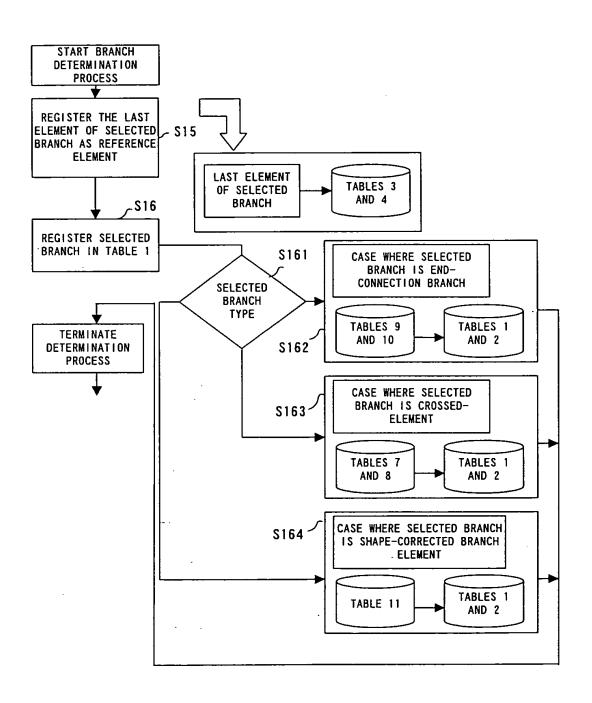


FIG. 39

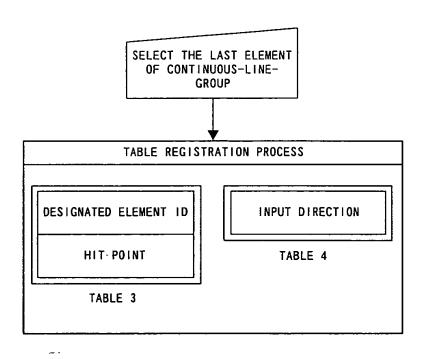


FIG. 40

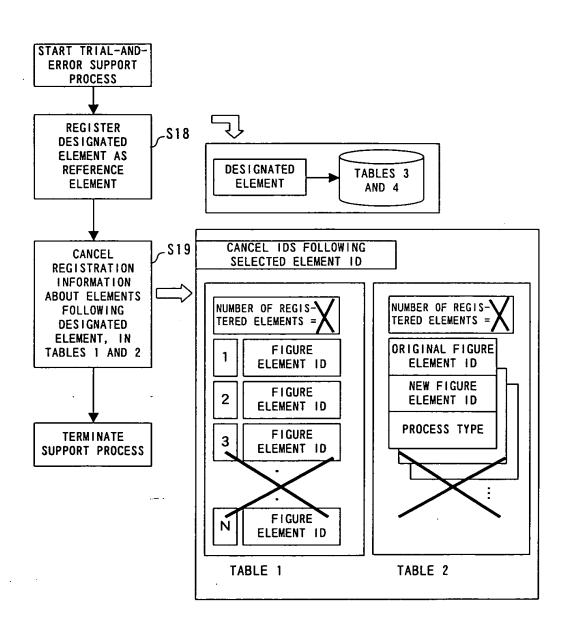


FIG. 41

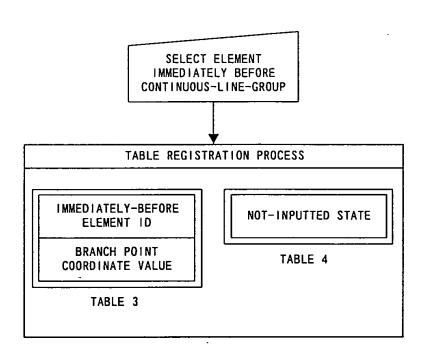


FIG. 42

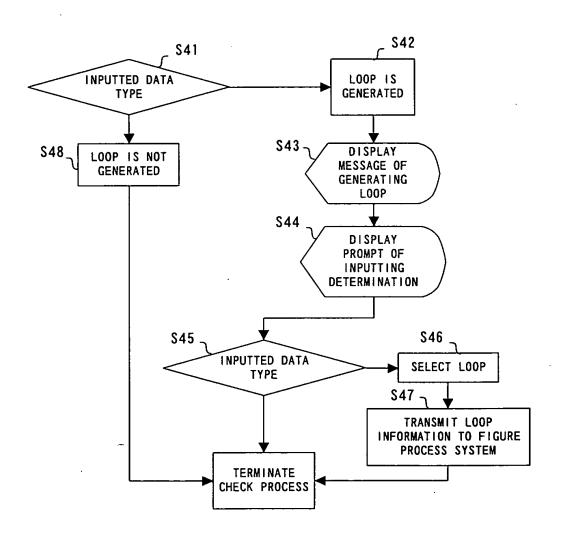


FIG. 43

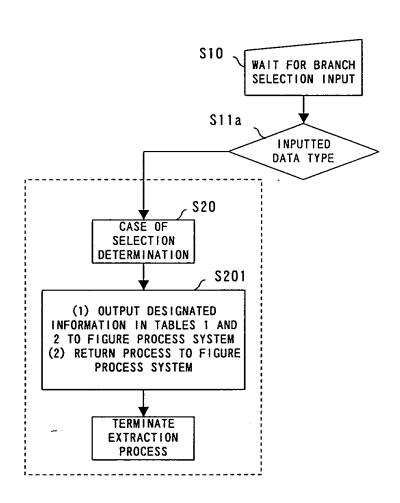


FIG. 44

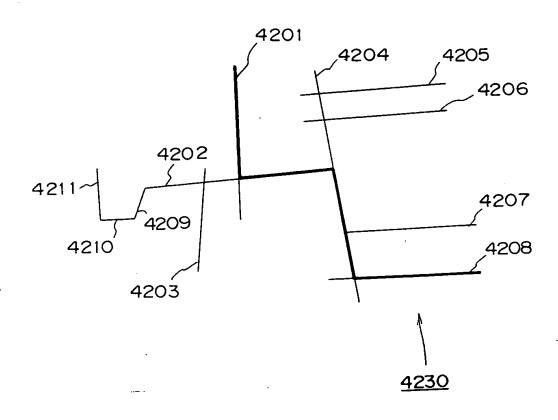


FIG. 45

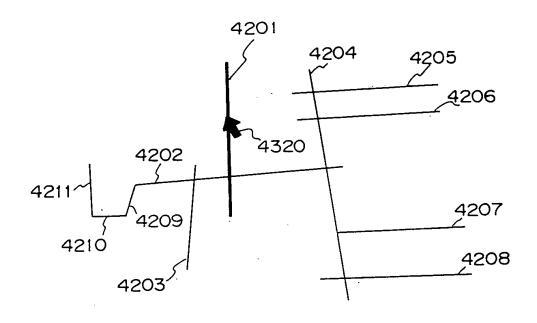


FIG. 46

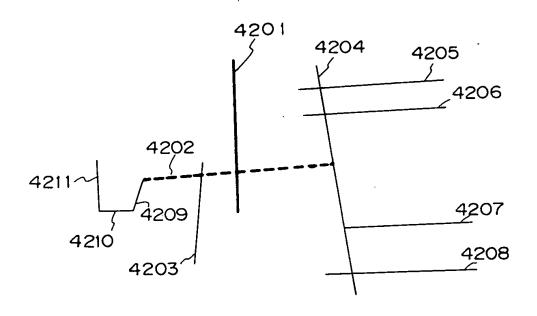


FIG. 47

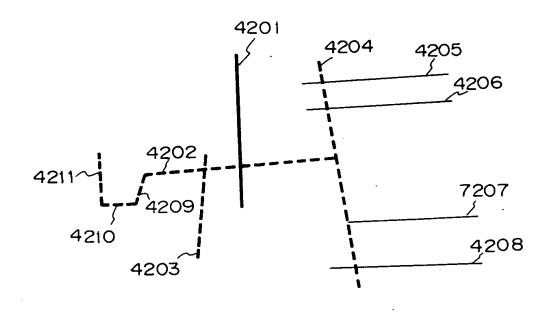


FIG. 48

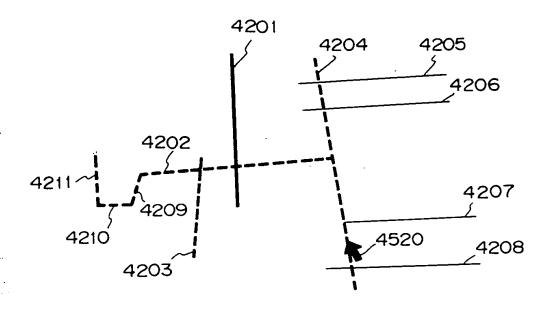


FIG. 49

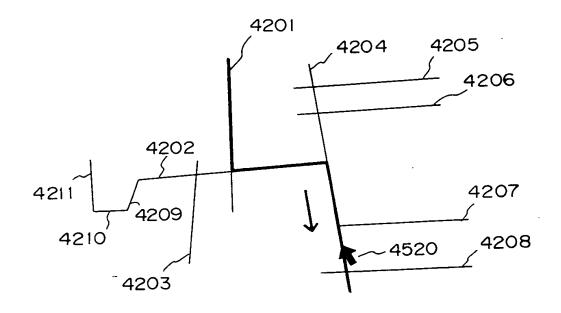


FIG. 50

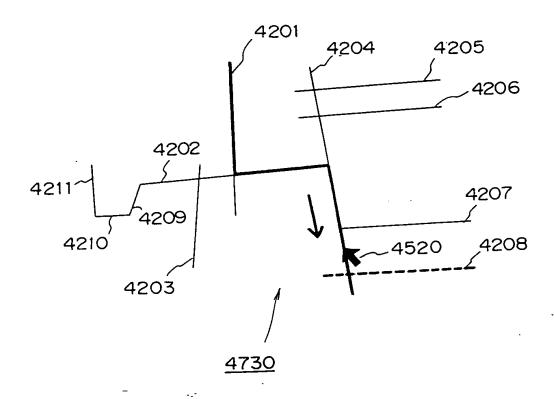


FIG. 51

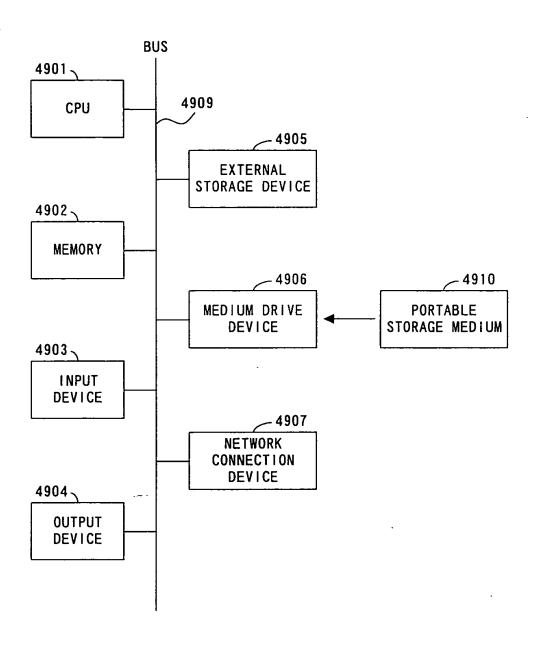


FIG. 52

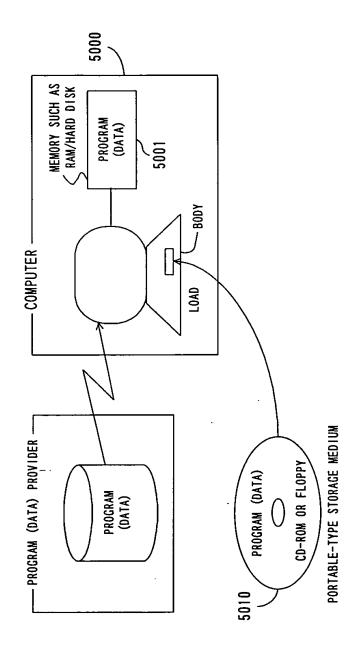


FIG. 53